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**IN THE SPECIFICATION:**

Please revise the paragraph beginning on line 25 of page 7 of the specification as follows:

In an especially advantageous practical embodiment, the invention consists of a test kit, which contains the oligonucleotides for the enrichment of a segment of the marker sequence of the αs1 casein gene, preferably the primer 1 CSN1S1pro1f (5' GAA TGA ATG AAC TAG TTA CC 3'), SEQ ID NO 8, primer 2 CSN1S1pro1r (5' GAA GAA GCA GCA AGC TGG 3'), SEQ ID NO 1, and primer 3 CSN1S1pro2r (5' CCT TGA AAT ATT CTA CCA G 3') SEQ ID NO 2 as well as reference probes for one or more sequences of the marker sequence of the αs1 casein gene and alleles thereof.

Please revise the paragraph beginning on line 7 of page 9 of the specification as follows:

Based on the current invention, the sequence fragment is flanked by the following oligonucleotide sequence, which is utilized as a primer for amplification by means of PCR, whereby the combinations Primer 1 with Primer 2, and Primer 1 with Primer 3 are possible:

Primer 1: CSN1S1pro1f (5' GAA TGA ATG AAC TAG TTA CC 3') SEQ ID NO 8

Primer 2: CSN1S1pro1r (5' GAA GAA GCA GCA AGC TGG 3') SEQ ID NO 1

Primer 3: CSN1S1pro2r (5' CCT TGA AAT ATT CTA CCA G 3') SEQ ID NO 2

Please revise the paragraph beginning on line 11 of page 11 of the specification as follows:

The sequence fragment is enhanced preferably with the following oligonucleotide sequences, based on the current invention, as primer for the amplification, whereby the combinations Primer 1 with Primer 2 and Primer 1 with Primer 3 are possible:

Primer 1: CSN1S1pro1f (5' GAA TGA ATG AAC TAG TTA CC 3') SEQ ID NO 8

Primer 2: CSN1S1pro1r (5' GAA GAA GCA GCA AGC TGG 3') SEQ ID NO 1

Primer 3: CSN1S1pro2r (5' CCT TGA AAT ATT CTA CCA G 3') SEQ ID NO 2

Please revise the paragraph beginning on line 11 of page 15 of the specification as follows:

In order to realize the amplification of the marker by means of PCR reaction the oligonucleotic sequences based on the current invention are utilized as primers:

Primer 1 CSN1S1pro1f (5' GAA TGA ATG AAC TAG TTA CC 3') SEQ ID NO 8

Primer 2 CSN1S1pro1r (5' GAA GAA GCA GCA AGC TGG 3') SEQ ID NO 1

Please revise the paragraph beginning on line 15 of page 16 of the specification as follows:

From DNA of 83 cattle of the breeds German American Holstein (6 cattle), German Red cattle (4 cattle), Yellow cattle (7 cattle), German Holstein (18 cattle), Black and White (9 cattle), Jersey (13 cattle), Pinzgauer (20 cattle) and Simbrah (6 cattle) the nucleic acid sequence position 1 to 655, as mentioned in figure 1, is amplified with the oligonucleotides, based on the current invention, CSN1S1pro1f (5' GAA TGA ATG AAC TAG TTA CC 3') SEQ ID NO 8 and CSN1S1pro1r (5' GAA GAA GCA GCA AGC TGG 3') SEQ ID NO 1 by means of PCR. The further procedure takes place as described in example 1.